USER MANUAL

GRASP

Version 1.0

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Introduction

GRASP for SharePoint provides ontology management and query answering features for SharePoint 2010.

This document contains all the information needed to install and use this product from **DIQA Projektmanagement GmbH**:

- Product overview,
- Administration incl. pre-requisites, installation, activation and configuration,
- User guide and
- Technical support.

Product Overview

SharePoint does not provide support for Big Data- and Semantic Web-strategies. Therefore you are faced with these challenges:

1. Your enterprise ontologies and taxonomies are valuable company assets that require to be managed, stored, preserved, and delivered according to your SharePoint strategy.
2. Your Big Data- and Semantic Web-tools generate insights that are important for you SharePoint users.

GRASP directly supports your strategy by introducing features into SharePoint to:

1. Manage ontologies centrally in SharePoint to foster collaboration amongst ontologists and to ensure preservation and compliance with the ECM-strategy of your company.
2. Give business users access to semantic data by introducing SPARQL-capabilities into SharePoint.

With the GRASP ontology management features you can:

- Upload ontologies into a SharePoint-ontology library in the most common syntaxes.
- Grant access to ontologies according to your security policies.
- Inspect metadata about ontologies that is extracted automatically and stored in SharePoint.
- Manage versions of ontologies and create local revisions.
- Add metadata to ontologies as you need it.
- Compatible with common ontology editors (e.g. Protégé or NeOn Toolkit)

With the GRASP query answering features you can:

- Upload managed ontologies into RDF-stores from within SharePoint.
- Formulate queries against uploaded ontologies using SPARQL.
- Re-use query results in SharePoint-web parts.

GRASP connects to any W3C compliant SPARQL 1.1-endpoint and is compatible with these RDF-stores:

- "Triplestore basic" (DIQA)
- "Virtuoso Universal Server" (Openlink Software)
- "Topbraid live" (Topquadrant)

Administration Guide

Software prerequisites

GRASP requires **SharePoint Server 2010**.
Server Requirements:

1. SharePoint Server 2010

In order to use the SPARQL-features of GRASP then you must install **Triplestore basic v1.7.1** (from DIQA, download: http://www.diqa-pm.com/Triplestore_basic) or one of the following products:

- Virtuoso Universal Server v6.4 (from OpenLink, download: http://download.openlinksw.com/virtwiz/virtuoso.php)
- TopBraid Live (from TopQuadrant, download: http://www.topquadrant.com/products/TB_Live.html)

Client PC Requirements:

1. Windows Vista/Windows 7
2. Microsoft Internet Explorer 8,9

Installation

In order to provide your SharePoint users with the features of GRASP you must execute this sequence of steps:

1. Install GRASP with the Installation Wizard *or* alternatively via the PowerShell,
2. Create the GRASP Service Application in the Central Administration and
3. Configure the GRASP Service Application

The following sections guide you through this process.

Installation with the Installation Wizard

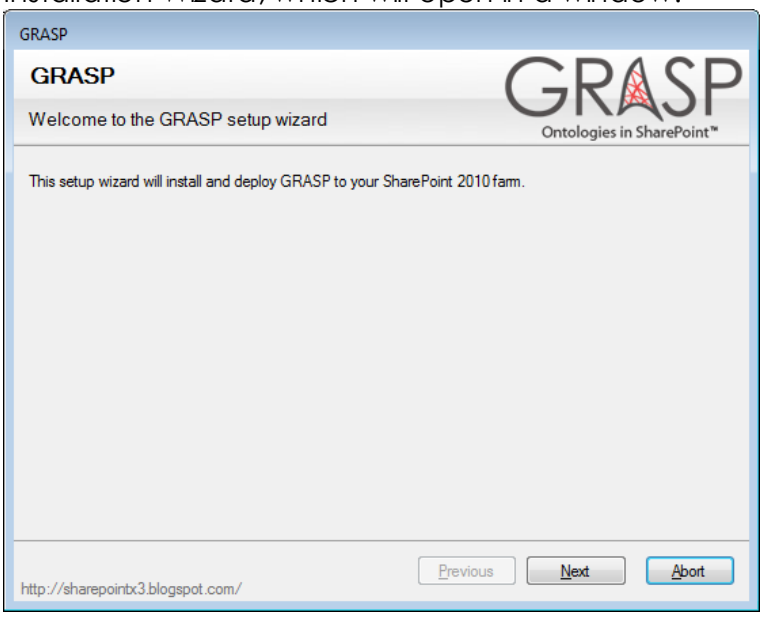
Execute the following steps to install GRASP on your SharePoint Farm:

1. Download the latest evaluation version of GRASP from: http://www.diqa-pm.com/GRASP and store it as local file on your server, e.g. "grasp-1.0_B27.zip".

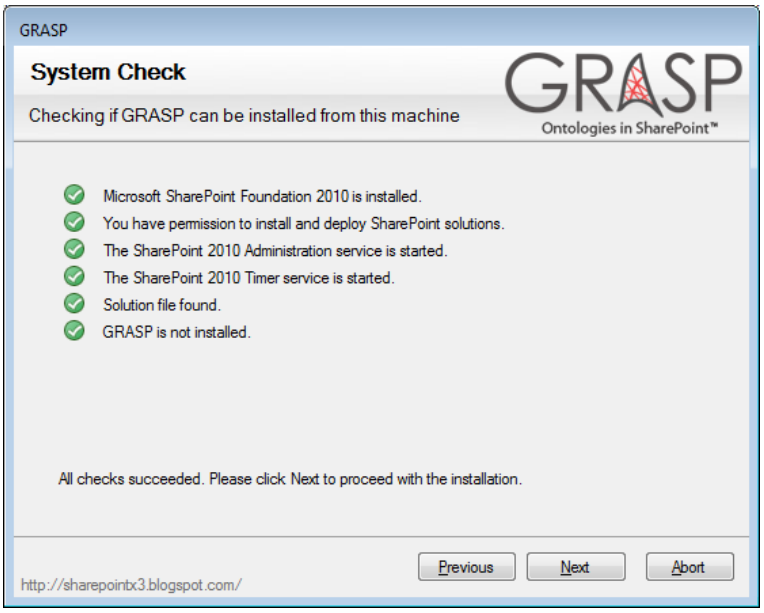
   Note:
   The evaluation version of GRASP is fully functional for 30 days. If you want to continue to use GRASP after this period has elapsed you must buy a valid license key from DIQA at: info@diqa-pm.de

2. Extract the zip-archive on your server.

3. Execute the file "Setup.exe" with administrator privileges to start the Installation Wizard, which will open in a window:



4. Click on next to perform the system check which indicates if GRASP can be installed:

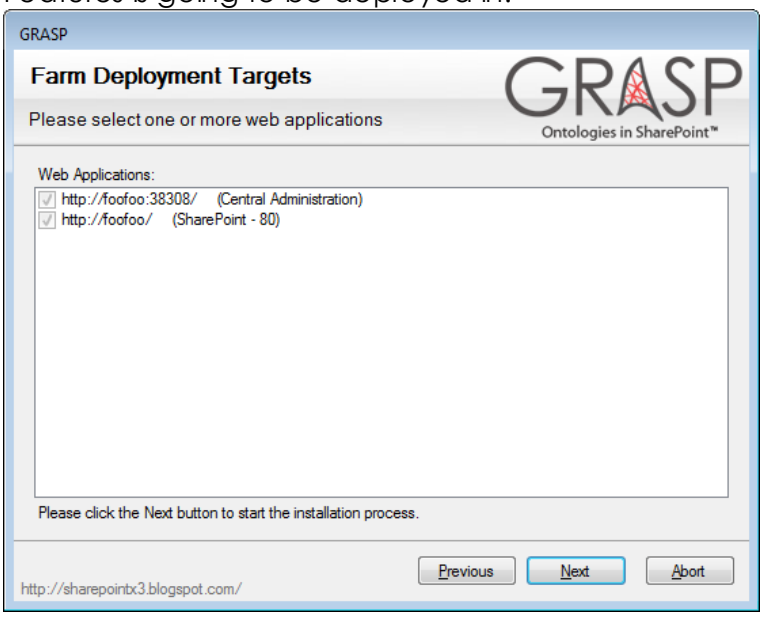

GRASP
System Check
Checking if GRASP can be installed from this machine
Ontologies in SharePoint™
Microsoft SharePoint Foundation 2010 is installed.
You have permission to install and deploy SharePoint solutions.
The SharePoint 2010 Administration service is started.
The SharePoint 2010 Timer service is started.
Solution file found.
GRASP is not installed.
All checks succeeded. Please click Next to proceed with the installation.
Previous
Next
Abort
http://sharepointx3.blogspot.com/

5. Click on next to see the End-User License Agreement (EULA). If you agree with the license agreement then tick the tick-box named "I

accept the terms in the License Agreement".

GRASP
End-User License Agreement
Please read the following license agreement carefully
GRASP
Ontologies in SharePoint™
Software License Agreement for Evaluation of GRASP v1.x
ATTENTION: PLEASE READ THIS DOCUMENT CAREFULLY BEFORE DOWNLOADING AND/OR COMPLETING THIS INSTALLATION. THE INDIVIDUAL OR ENTITY RUNNING THIS INSTALLATION (THE "END-USER") AGREES TO BE BOUND BY THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE WITH THIS LICENSE, DO NOT COMPLETE THIS INSTALLATION. YOUR DOWNLOAD OF AND/OR THE INSTALLATION OF THIS SOLUTION CONSTITUTES ACCEPTANCE OF THIS LICENSE AGREEMENT.
I accept the terms in the License Agreement
Previous
Next
Abort
http://sharepointx3.blogspot.com/

6. Click on next to see the Web Applications where the GRASP Solution Features is going to be deployed in:

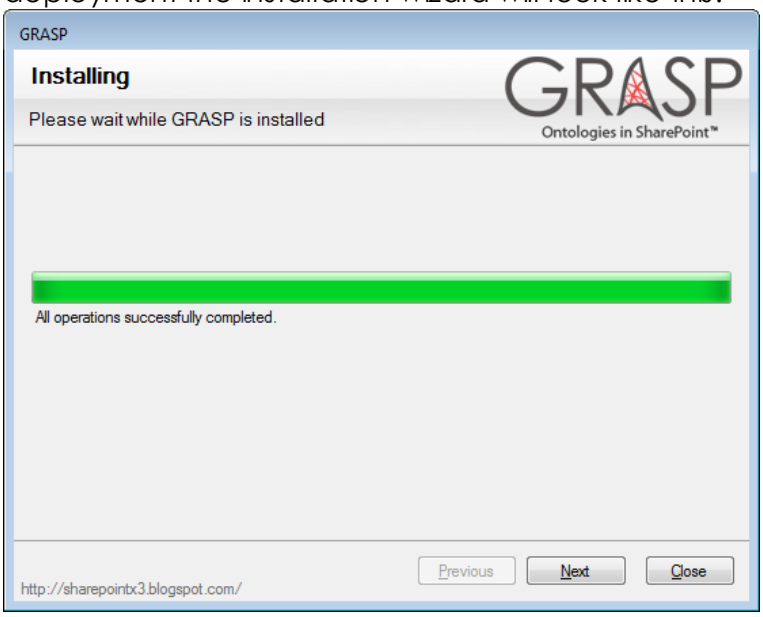


Note:
You cannot change the deployment targets.
If you click on "next" then the following features will be installed:

1. "GraspServiceApplication_Installer" (ID: "22cd66d7-4408-4aee-96b6-a4214cb57b87") with scope: Farm
2. "GraspServiceApplication_Grasp " (ID: "0405ef4b-55a2-4c76-aea6-a76c6f8d2fa3") with scope: Site Collection

The "GRASP service application grasp"-feature will be deployed on ALL site collections of all web applications.

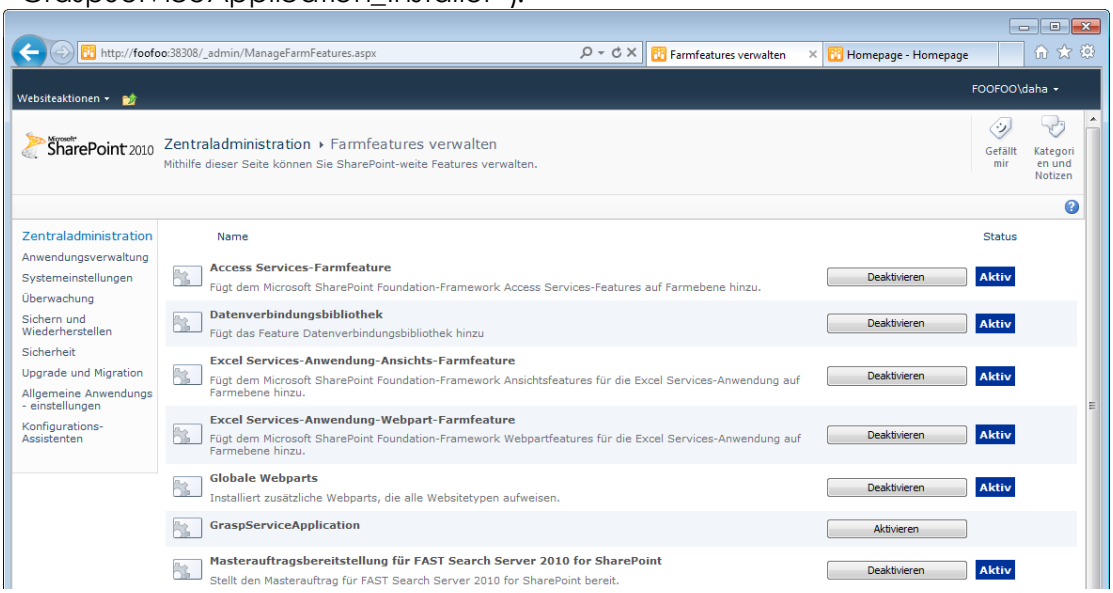
7. Click on next to initiate the deployment process. Upon successful deployment the installation wizard will look like this:



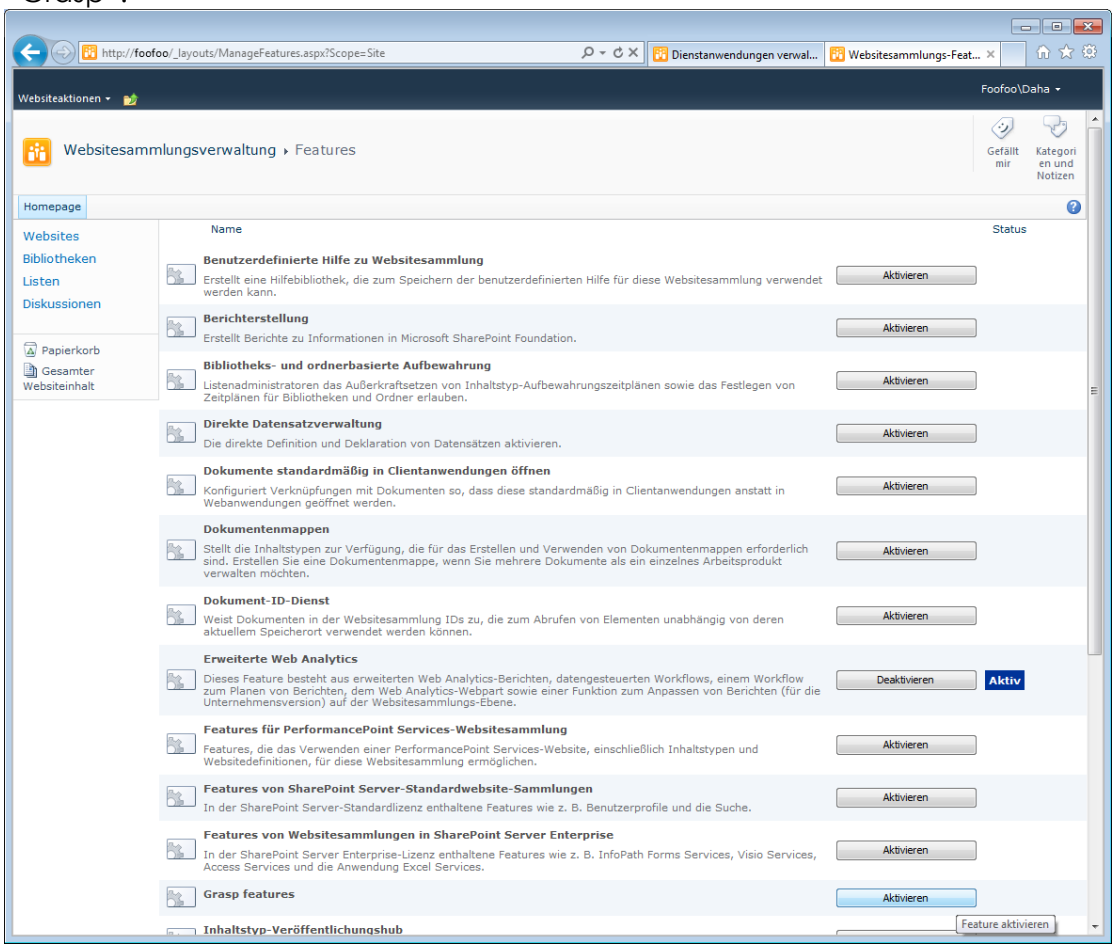
8. Click on next get the list of web applications where the solution has been deployed in. This list will read like this:

```
***** SOLUTION DEPLOYMENT *****
<SERVER> : http://<server>:14277/ : The solution was successfully deployed.
<SERVER> : http://<server>/ : The solution was successfully deployed.
<SERVER> : http://<server>12082/ : The solution was successfully deployed.
```

9. Click on the "close"-button to close the Installation Wizard.
10. Open the Central Administration as a farm administrator
11. Go to "*Central Administration > System Settings > Farm Management > Manage Farm Features" and activate the feature "GraspServiceApplication" (this is the Display Name of the feature* "GraspServiceApplication_Installer"*):*



12. Open the site collection as site collection administrator and go to "*Site Collection Administration > Features*" and activate the feature named "Grasp":


http://foofoo/_layouts/ManageFeatures.aspx?Scope=Site
Dienstanwendungen verwal...
Websitesammlungs-Feat...
Websiteaktionen
Foofoo\Daha
Websitesammlungsverwaltung › Features
Gefällt mir
Kategorien und Notizen
Homepage
Websites
Bibliotheken
Listen
Diskussionen
Papierkorb
Gesamter Websiteinhalt
Name
Status
Benutzerdefinierte Hilfe zu Websitesammlung
Erstellt eine Hilfebibliothek, die zum Speichern der benutzerdefinierten Hilfe für diese Websitesammlung verwendet werden kann.
Aktivieren
Berichterstellung
Erstellt Berichte zu Informationen in Microsoft SharePoint Foundation.
Aktivieren
Bibliotheks- und ordnerbasierte Aufbewahrung
Listenadministratoren das Außerkraftsetzen von Inhaltstyp-Aufbewahrungszeitplänen sowie das Festlegen von Zeitplänen für Bibliotheken und Ordner erlauben.
Aktivieren
Direkte Datensatzverwaltung
Die direkte Definition und Deklaration von Datensätzen aktivieren.
Aktivieren
Dokumente standardmäßig in Clientanwendungen öffnen
Konfiguriert Verknüpfungen mit Dokumenten so, dass diese standardmäßig in Clientanwendungen anstatt in Webanwendungen geöffnet werden.
Aktivieren
Dokumentenmappen
Stellt die Inhaltstypen zur Verfügung, die für das Erstellen und Verwenden von Dokumentenmappen erforderlich sind. Erstellen Sie eine Dokumentenmappe, wenn Sie mehrere Dokumente als ein einzelnes Arbeitsprodukt verwalten möchten.
Aktivieren
Dokument-ID-Dienst
Weist Dokumenten in der Websitesammlung IDs zu, die zum Abrufen von Elementen unabhängig von deren aktuellem Speicherort verwendet werden können.
Aktivieren
Erweiterte Web Analytics
Dieses Feature besteht aus erweiterten Web Analytics-Berichten, datengesteuerten Workflows, einem Workflow zum Planen von Berichten, dem Web Analytics-Webpart sowie einer Funktion zum Anpassen von Berichten (für die Unternehmensversion) auf der Websitesammlungs-Ebene.
Deaktivieren
Aktiv
Features für PerformancePoint Services-Websitesammlung
Features, die das Verwenden einer PerformancePoint Services-Website, einschließlich Inhaltstypen und Websitedefinitionen, für diese Websitesammlung ermöglichen.
Aktivieren
Features von SharePoint Server-Standardwebsite-Sammlungen
In der SharePoint Server-Standardlizenz enthaltene Features wie z. B. Benutzerprofile und die Suche.
Aktivieren
Features von Websitesammlungen in SharePoint Server Enterprise
In der SharePoint Server Enterprise-Lizenz enthaltene Features wie z. B. InfoPath Forms Services, Visio Services, Access Services und die Anwendung Excel Services.
Aktivieren
Grasp features
Aktivieren
Inhaltstyp-Veröffentlichungshub
Feature aktivieren

13. Repeat this for all site collections that shall provide the GRASP features.

> **Note:**
> Please continue with the section "Create the GRASP Service Application in the Central Administration".

Alternative: Installation via the PowerShell

You can also install GRASP via the PowerShell. Execute the following steps to install GRASP on your SharePoint Farm using the PowerShell:

1. Download the latest evaluation version of GRASP from: http://www.diqa-pm.com/GRASP and store it as local file on your server, e.g. "grasp-1.0_B27.zip".

> **Note:**
> The evaluation version of GRASP is fully functional for 30 days. If you want to continue to use GRASP after this period has elapsed you must buy a valid license key from DIQA at: info@diqa-pm.de

2. Extract the zip-archive on your server.

3. Open the PowerShell with administrator privileges.
4. To install GRASP to the farm execute this command the PowerShell:

```
Add-SPSolution -LiteralPath "<path>\GraspServiceApplication.wsp"
```

Note:
1. Replace <path> with the full path to the .wsp-file that has been extracted on your server.
2. Ensure that the "SharePoint.Powershell"-Snapin is registered (register it by entering "Add-PSSnapIn Microsoft.SharePoint.PowerShell")
3. Ensure that script-execution is enabled (enable it by entering: "Set-ExecutionPolicy unrestricted")

5. As a result you should see the solution ID of GRASP and see that it is not yet deployed.
6. To deploy the GraspServiceApplication to the web applications enter:

```
Install-SPSolution -Identity graspserviceapplication.wsp -AllWebApplications -
GACDeployment
```

Note:
Since GRASP contains a Farm feature you cannot deploy GRASP to single web applications.

7. Wait a few seconds to allow the deployment to finish.
8. To enable the farm feature (and make the site collection features available) enter

```
Enable-SPFeature -Identity GraspServiceApplication Installer
```

9. To install the site collection feature on all web-applications, enter:

```
Install-SPFeature GraspServiceApplication_Grasp
```

10. Enable the site collection feature for each site collection:

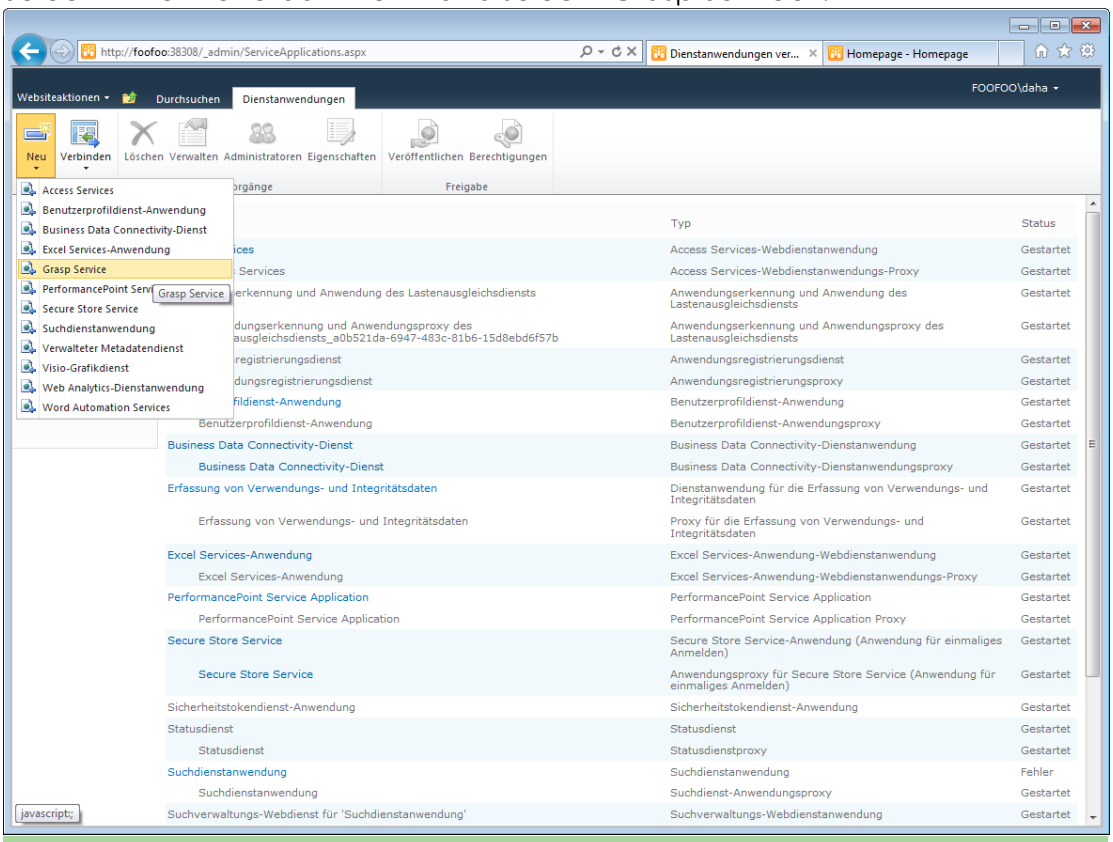
```
Enable-SPFeature -Identity GraspServiceApplication_Grasp -Url <URL of the site
collection>
```

Create the GRASP Service Application in the Central Administration

After the installation of GRASP into your farm you must execute the following sequence to create the GRASP Service Application in the Central Administration:

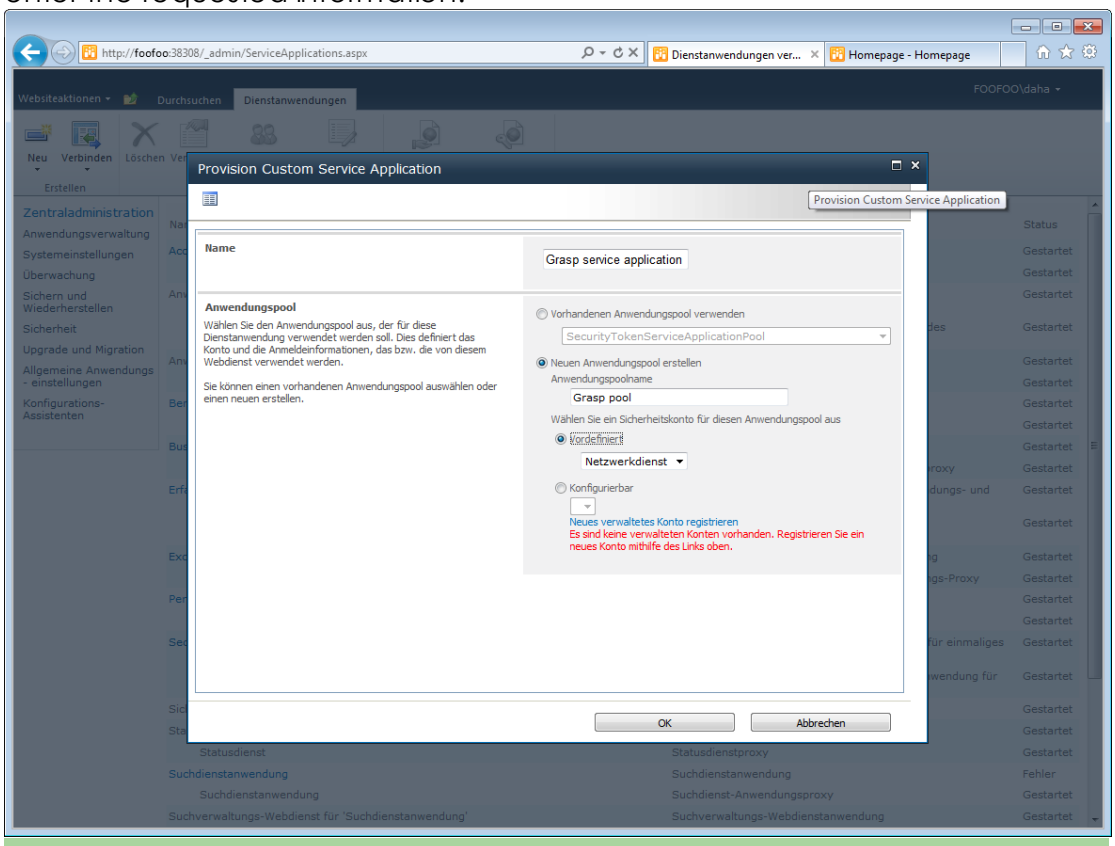
1. Go to "*Central Administration* > *Application Management* > *Service Applications* > *Manage Service Applications*" and reload the page by hitting "Shift" and "F5" at the same time.

2. Select in the menu bar “New” and select “Grasp Service”:



Note:
In case, the New Button is greyed out for you, restart Internet Explorer as administrator.

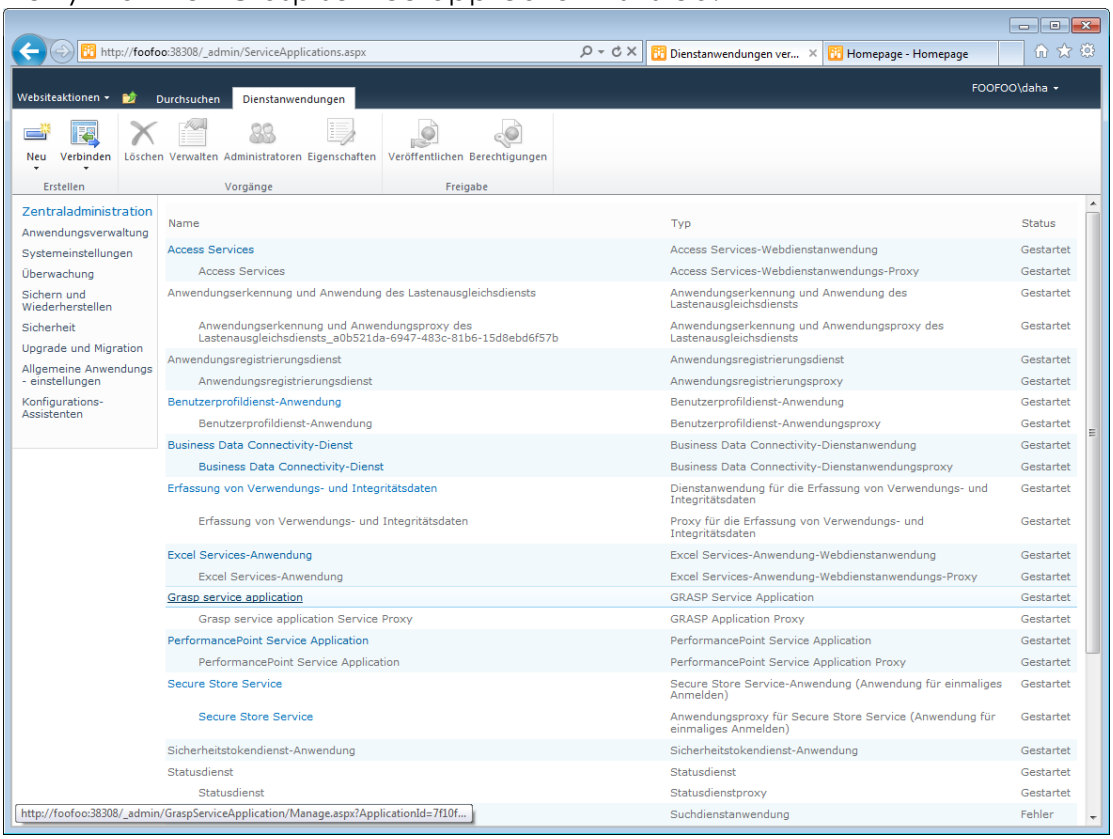
3. In the pop up window named "Provision Custom Service Application" enter the requested information:


Provision Custom Service Application
Name
Grasp service application
Anwendungspool
Wählen Sie den Anwendungspool aus, der für diese Dienstanwendung verwendet werden soll. Dies definiert das Konto und die Anmeldeinformationen, das bzw. die von diesem Webdienst verwendet werden.
Sie können einen vorhandenen Anwendungspool auswählen oder einen neuen erstellen.
Vorhandenen Anwendungspool verwenden
SecurityTokenServiceApplicationPool
Neuen Anwendungspool erstellen
Anwendungspoolname
Grasp pool
Wählen Sie ein Sicherheitskonto für diesen Anwendungspool aus
Vordefiniert
Netzwerkdienst
Konfigurierbar
Neues verwaltetes Konto registrieren
Es sind keine verwalteten Konten vorhanden. Registrieren Sie ein neues Konto mithilfe des Links oben.
OK
Abbrechen

Note:
Make sure that your settings comply with your farm administration policy.

4. Save the form and return to the list of service applications. After a few seconds this list should be refreshed.

5. Verify that the "Grasp service application" is listed:

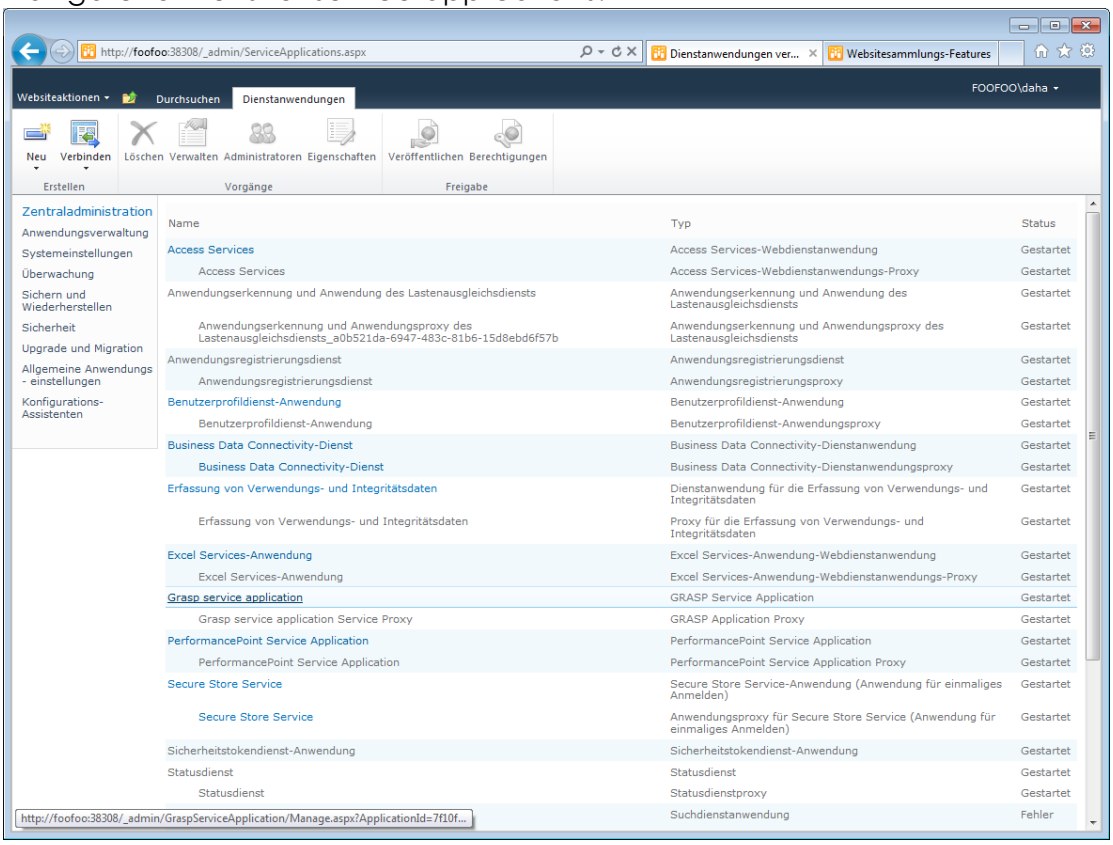


Configuration of the GRASP Service Application

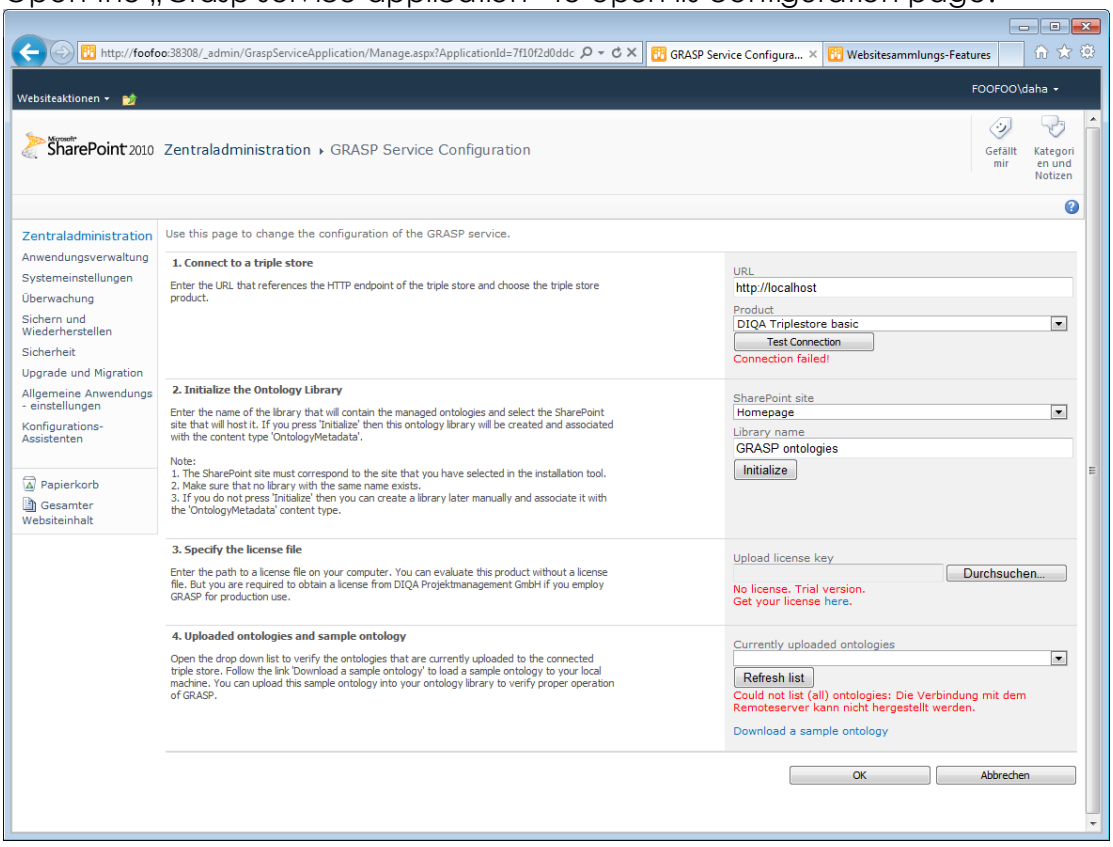
Execute the following sequence to make GRASP ready for your users:

1. Open the Central Administration with administration privileges.

2. Navigate to the list of service applications:

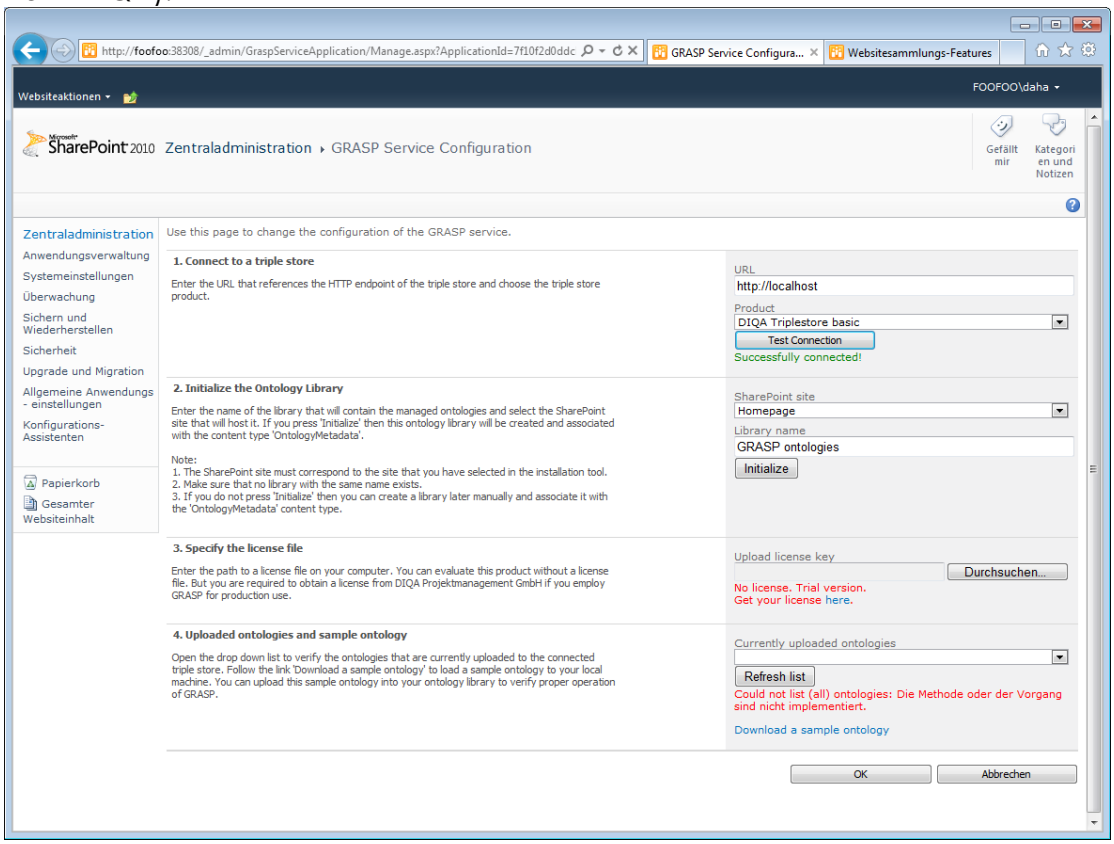


3. Open the „Grasp service application“ to open its configuration page:


http://foofoo:38308/_admin/GraspServiceApplication/Manage.aspx?ApplicationId=7f10f2d0ddc
GRASP Service Configura...
Websitesammlungs-Features
Websiteaktionen
FOOFOO\daha
SharePoint 2010
Zentraladministration ▸ GRASP Service Configuration
Gefällt mir
Kategorien und Notizen
Zentraladministration
Anwendungsverwaltung
Systemeinstellungen
Überwachung
Sichern und Wiederherstellen
Sicherheit
Upgrade und Migration
Allgemeine Anwendungs - einstellungen
Konfigurations-Assistenten
Papierkorb
Gesamter Websiteinhalt
Use this page to change the configuration of the GRASP service.
1. Connect to a triple store
Enter the URL that references the HTTP endpoint of the triple store and choose the triple store product.
URL
http://localhost
Product
DIQA Triplestore basic
Test Connection
Connection failed!
2. Initialize the Ontology Library
Enter the name of the library that will contain the managed ontologies and select the SharePoint site that will host it. If you press 'Initialize' then this ontology library will be created and associated with the content type 'OntologyMetadata'.
Note:
1. The SharePoint site must correspond to the site that you have selected in the installation tool.
2. Make sure that no library with the same name exists.
3. If you do not press 'Initialize' then you can create a library later manually and associate it with the 'OntologyMetadata' content type.
SharePoint site
Homepage
Library name
GRASP ontologies
Initialize
3. Specify the license file
Enter the path to a license file on your computer. You can evaluate this product without a license file. But you are required to obtain a license from DIQA Projektmanagement GmbH if you employ GRASP for production use.
Upload license key
Durchsuchen...
No license. Trial version.
Get your license here.
4. Uploaded ontologies and sample ontology
Open the drop down list to verify the ontologies that are currently uploaded to the connected triple store. Follow the link 'Download a sample ontology' to load a sample ontology to your local machine. You can upload this sample ontology into your ontology library to verify proper operation of GRASP.
Currently uploaded ontologies
Refresh list
Could not list (all) ontologies: Die Verbindung mit dem Remoteserver kann nicht hergestellt werden.
Download a sample ontology
OK
Abbrechen

4. Enter the parameters required to establish a connection to your triple store endpoint:

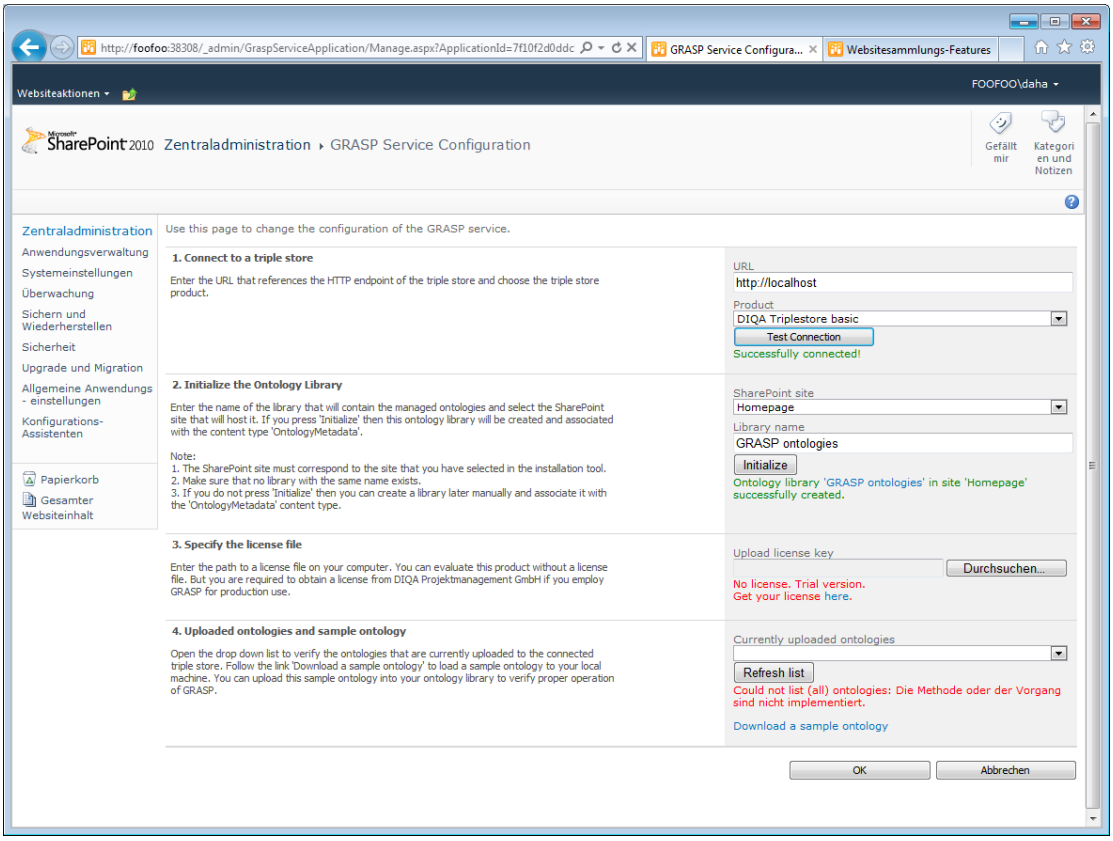
a. Enter the URL that references the HTTP endpoint of the triple store (in the following we assume that the endpoint is "http://localhost".).
b. Choose the triple store product in the drop down box (in the following we assume that the triple store is a "Triplestore basic" from DIQA).


GRASP Service Configura...
Websitesammlungs-Features
Websiteaktionen
FOOFOO\daha
SharePoint 2010
Zentraladministration ▸ GRASP Service Configuration
Gefällt mir
Kategorien und Notizen
Zentraladministration
Anwendungsverwaltung
Systemeinstellungen
Überwachung
Sichern und Wiederherstellen
Sicherheit
Upgrade und Migration
Allgemeine Anwendungseinstellungen
Konfigurations-Assistenten
Papierkorb
Gesamter Websiteinhalt
Use this page to change the configuration of the GRASP service.
1. Connect to a triple store
Enter the URL that references the HTTP endpoint of the triple store and choose the triple store product.
URL
http://localhost
Product
DIQA Triplestore basic
Test Connection
Successfully connected!
2. Initialize the Ontology Library
Enter the name of the library that will contain the managed ontologies and select the SharePoint site that will host it. If you press 'Initialize' then this ontology library will be created and associated with the content type 'OntologyMetadata'.
Note:
1. The SharePoint site must correspond to the site that you have selected in the installation tool.
2. Make sure that no library with the same name exists.
3. If you do not press 'Initialize' then you can create a library later manually and associate it with the 'OntologyMetadata' content type.
SharePoint site
Homepage
Library name
GRASP ontologies
Initialize
3. Specify the license file
Enter the path to a license file on your computer. You can evaluate this product without a license file. But you are required to obtain a license from DIQA Projektmanagement GmbH if you employ GRASP for production use.
Upload license key
Durchsuchen...
No license. Trial version.
Get your license here.
4. Uploaded ontologies and sample ontology
Open the drop down list to verify the ontologies that are currently uploaded to the connected triple store. Follow the link 'Download a sample ontology' to load a sample ontology to your local machine. You can upload this sample ontology into your ontology library to verify proper operation of GRASP.
Currently uploaded ontologies
Refresh list
Could not list (all) ontologies: Die Methode oder der Vorgang sind nicht implementiert.
Download a sample ontology
OK
Abbrechen

5. Click on "Test Connection" to verify that GRASP and the triplestore communicate.

> **Important Note:**
> You must click on "OK" at the bottom of the page to make your choice of URL and Product persistent! Upon clicking on "OK" your triple store settings will be saved and the page is reloaded. You can then resume the configuration.

6. In the section "2. Initialize the Ontology Library" you can enter the name of a library that will contain managed ontologies and select the SharePoint site that will host it. If you press 'Initialize' then this ontology library will be created and configured to use the content type 'OntologyMetadata'. Upon successful initialization the screen will read:


http://foofoo:38308/_admin/GraspServiceApplication/Manage.aspx?ApplicationId=7f10f2d0ddc
GRASP Service Configura...
Websitesammlungs-Features
Websiteaktionen
FOOFOO\daha
SharePoint 2010
Zentraladministration ▸ GRASP Service Configuration
Gefällt mir
Kategorien und Notizen
Zentraladministration
Anwendungsverwaltung
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Upgrade und Migration
Allgemeine Anwendungs - einstellungen
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Papierkorb
Gesamter Websiteinhalt
Use this page to change the configuration of the GRASP service.
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http://localhost
Product
DIQA Triplestore basic
Test Connection
Successfully connected!
2. Initialize the Ontology Library
Enter the name of the library that will contain the managed ontologies and select the SharePoint site that will host it. If you press 'Initialize' then this ontology library will be created and associated with the content type 'OntologyMetadata'.
Note:
1. The SharePoint site must correspond to the site that you have selected in the installation tool.
2. Make sure that no library with the same name exists.
3. If you do not press 'Initialize' then you can create a library later manually and associate it with the 'OntologyMetadata' content type.
SharePoint site
Homepage
Library name
GRASP ontologies
Initialize
Ontology library 'GRASP ontologies' in site 'Homepage' successfully created.
3. Specify the license file
Enter the path to a license file on your computer. You can evaluate this product without a license file. But you are required to obtain a license from DIQA Projektmanagement GmbH if you employ GRASP for production use.
Upload license key
Durchsuchen...
No license. Trial version.
Get your license here.
4. Uploaded ontologies and sample ontology
Open the drop down list to verify the ontologies that are currently uploaded to the connected triple store. Follow the link 'Download a sample ontology' to load a sample ontology to your local machine. You can upload this sample ontology into your ontology library to verify proper operation of GRASP.
Currently uploaded ontologies
Refresh list
Could not list (all) ontologies: Die Methode oder der Vorgang sind nicht implementiert.
Download a sample ontology
OK
Abbrechen

Note:

1. Make sure that no library with the same name exists.
2. The link to the newly created library is given in the message – click on it to open the library.
3. If you do not press 'Initialize' then you can create a library later manually and associate it with the 'OntologyMetadata' content type.

7. In section "3. Specify the license file" you can enter the path to a license file on your computer.

Note:
The evaluation version of GRASP is fully functional for 30 days. If you want to continue to use GRASP after this period has elapsed you must buy a valid license key from DIQA at: info@diqa-pm.de

8. In section "4. Uploaded ontologies and sample ontology " you open the drop down list to verify the ontologies that are currently uploaded to the connected triple store. Refresh the list by clicking on "Refresh list".
9. Follow the link 'Download a sample ontology' to load a sample ontology to your local machine. You can upload this sample ontology later into your ontology library to verify proper operation of GRASP.

Note:
GRASP is now ready for your users.

De-installation

Execute the following sequence to remove GRASP from your SharePoint Farm:

Important Note:
The installation tool will not de-install the Content Type "OntologyMetadata" if this is still in use! If you want to get the Content Type "OntologyMetadata" removed by the installer, make sure that the content type is not used by any library or document.

1. Execute the file "Setup.exe" with administrator privileges to start the Installation Wizard, which will open in a window.
2. After checking some prerequisites the wizard will detect that GRASP is already installed and you can select "Remove" to uninstall it.
3. Upon successful de-installation, the wizard should display a message like this one:

```
***** SOLUTION RETRACTION *****
<SERVER> : http://<server>:14277/ : The solution was successfully retracted.
<SERVER> : http://<server>/ : The solution was successfully retracted.
<SERVER> : http://<server>:12082/ : The solution was successfully retracted.
```

The wizard has removed the following items from your SharePoint farm

- SharePoint solution named "graspserviceapplication.wsp"
- SharePoint farm feature named "GraspServiceApplication_Installer"
- SharePoint site collection feature named "GRASP features"
- the content type "OntologyMetadata" will only be removed if it not used anymore.

The wizard does not retract the following items from your farm

- all GRASP ontology libraries that you created (including the documents they contain)
- Service Application Pool (to remove it open the powershell and enter Remove-SPServiceApplicationPool -Identity "<name of the service pool>")

Note:
Sometimes the installer aborts the de-installation process with an error. If this is the case, then re-start the installer. The solution will then be retracted completely.

User Guide

Introduction

After the installation of GRASP and the activation for a site collection (named "http://homepage" in the following for simplicity), the homepage contains the following:

- A content type named "OntologyMetadata" and
- A library named "GRASP ontologies" (name can differ depending on the administrators choice)
- A web part named "SPARQL Query Webpart"

You can download an example ontology ("countries.owl") from the DIQA website that you can use for evaluation purposes:

- http://downloads.diqa-pm.com/free/countries.owl

You can use this SPARQL query that works for the countries.owl ontology:

```
SELECT * WHERE { GRAPH ?G{ ?x a
<http://smwplus.com/ontologies/countries.owl#SelfGovernedCountry> } }
```

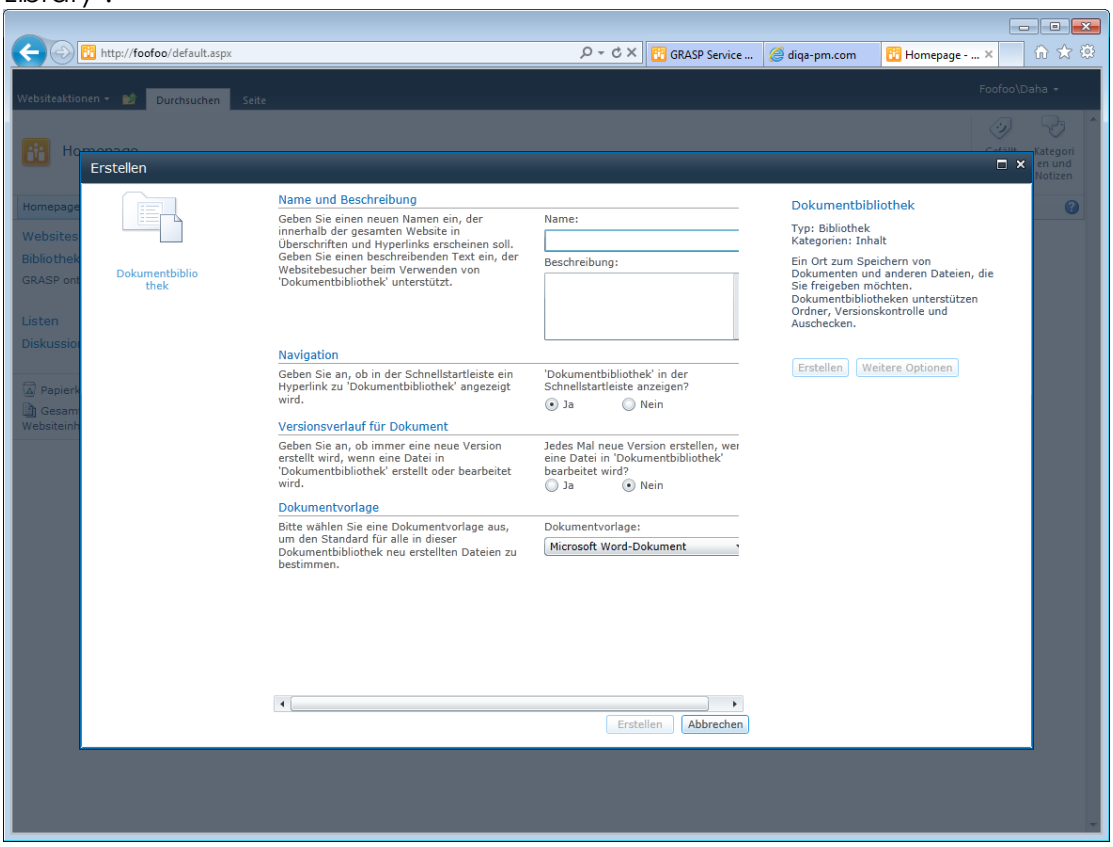
Creating a document library for ontologies

This section explains how to create a library in http://homepage that is used to manage ontologies.

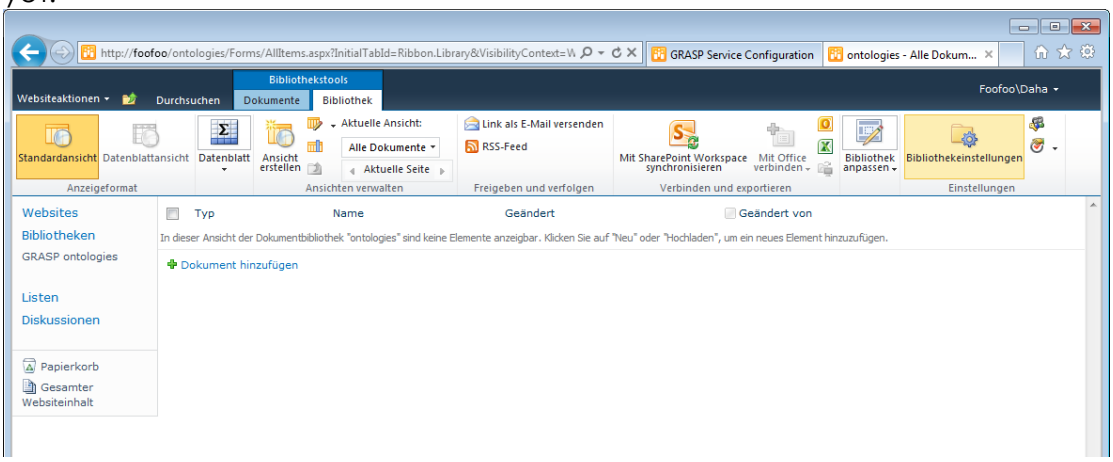
> **Note:**
> You can skip this section if your administrator has already created a library that is associated with the content type "Ontology Metadata".

1. Open your site collection http://homepage with site collection administrator privileges.

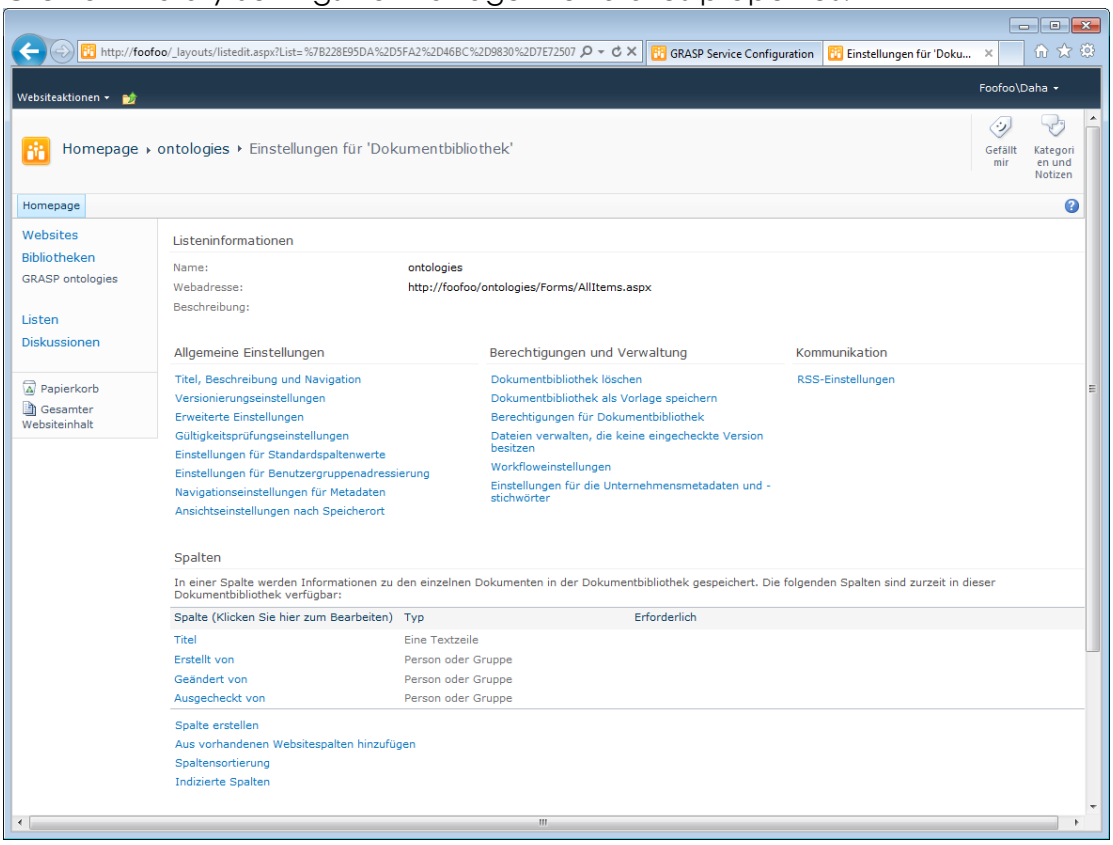
2. Use the "Site Actions" menu and select "Create New Document Library":


Erstellen
Name und Beschreibung
Geben Sie einen neuen Namen ein, der innerhalb der gesamten Website in Überschriften und Hyperlinks erscheinen soll. Geben Sie einen beschreibenden Text ein, der Websitebesucher beim Verwenden von 'Dokumentbibliothek' unterstützt.
Name:
Beschreibung:
Navigation
Geben Sie an, ob in der Schnellstartleiste ein Hyperlink zu 'Dokumentbibliothek' angezeigt wird.
'Dokumentbibliothek' in der Schnellstartleiste anzeigen?
Ja
Nein
Versionsverlauf für Dokument
Geben Sie an, ob immer eine neue Version erstellt wird, wenn eine Datei in 'Dokumentbibliothek' erstellt oder bearbeitet wird.
Jedes Mal neue Version erstellen, wenn eine Datei in 'Dokumentbibliothek' bearbeitet wird?
Ja
Nein
Dokumentvorlage
Bitte wählen Sie eine Dokumentvorlage aus, um den Standard für alle in dieser Dokumentbibliothek neu erstellten Dateien zu bestimmen.
Dokumentvorlage:
Microsoft Word-Dokument
Dokumentbibliothek
Typ: Bibliothek
Kategorien: Inhalt
Ein Ort zum Speichern von Dokumenten und anderen Dateien, die Sie freigeben möchten. Dokumentbibliotheken unterstützen Ordner, Versionskontrolle und Auschecken.
Erstellen
Weitere Optionen
Erstellen
Abbrechen

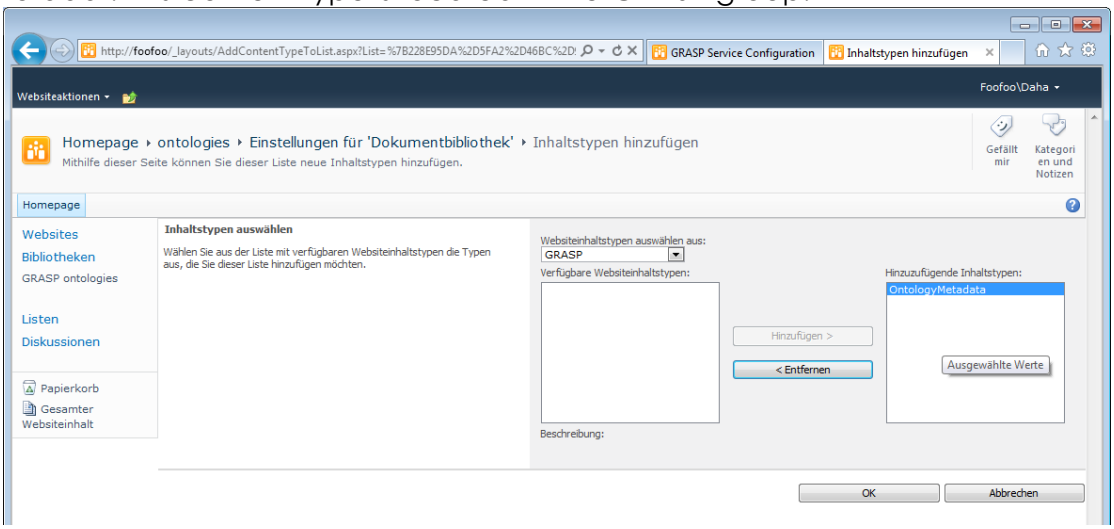
3. Enter a new name for the library and optionally a description.
4. Choose "None" as document template.
5. Click "Create" and SharePoint will create the library page and will display it for you. It does not contain any documents (i.e. ontologies) yet:



6. Click on "Library Settings" to manage the libraries properties:

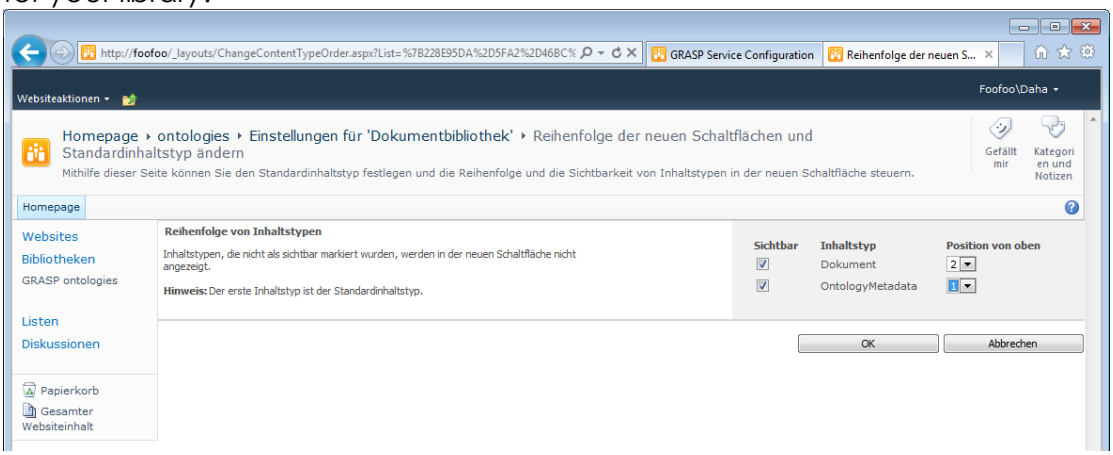


7. On the "Document Library Settings" page choose "Advanced settings" and then enable the management of content types for this library (click "Yes" for the top most setting)
8. After clicking "OK" on the bottom of the page you can add new content types to the library.
9. Choose "Add from existing site content types " on the "Document Library Settings" page
10. On the next page add "OntologyMetadata" to the list "Content types to add". This content type is located in the GRASP group:

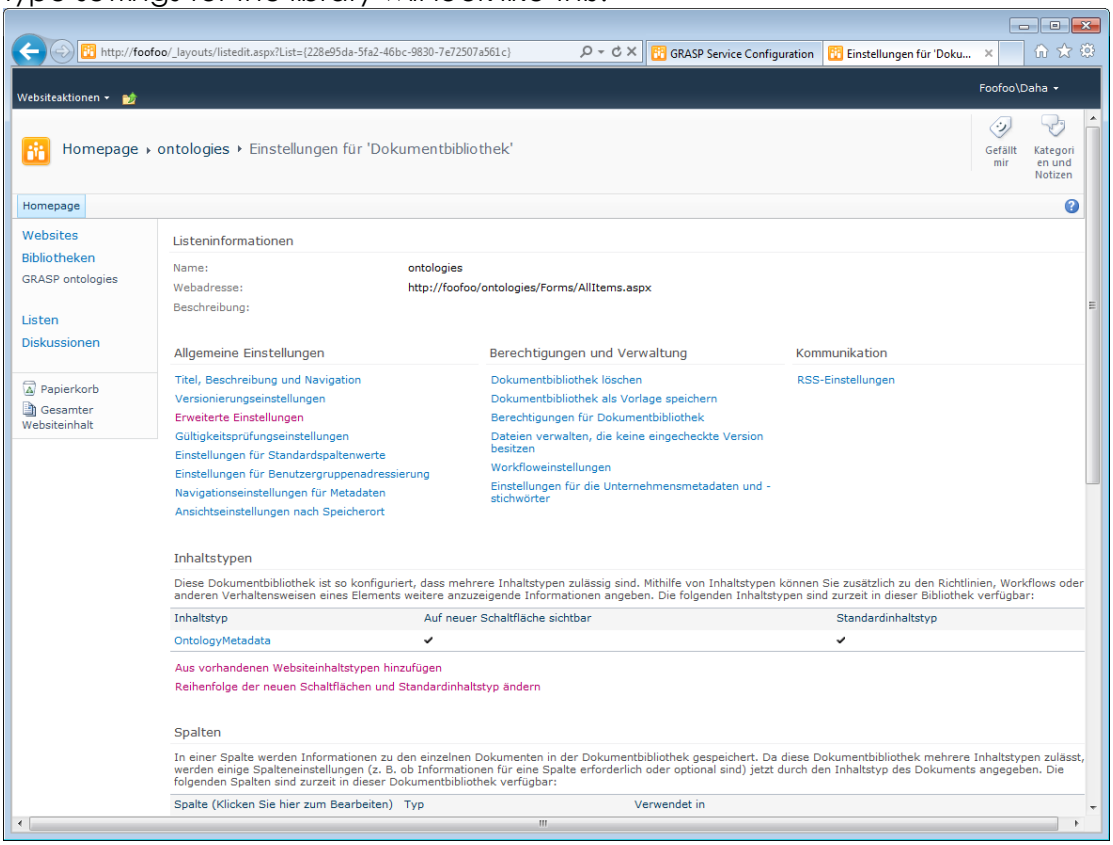


11. After clicking "OK" the library supports a new content type.

12. Make the OntologyMetadata-content type the default content type for your library:


Homepage ▸ ontologies ▸ Einstellungen für 'Dokumentbibliothek' ▸ Reihenfolge der neuen Schaltflächen und Standardinhaltstyp ändern
Mithilfe dieser Seite können Sie den Standardinhaltstyp festlegen und die Reihenfolge und die Sichtbarkeit von Inhaltstypen in der neuen Schaltfläche steuern.
Reihenfolge von Inhaltstypen
Inhaltstypen, die nicht als sichtbar markiert wurden, werden in der neuen Schaltfläche nicht angezeigt.
Hinweis: Der erste Inhaltstyp ist der Standardinhaltstyp.
Sichtbar
Inhaltstyp
Position von oben
Dokument
OntologyMetadata
OK
Abbrechen

13. Remove the list content type "Document" from the library; the content type settings for the library will look like this:


Homepage ▸ ontologies ▸ Einstellungen für 'Dokumentbibliothek'
Listeninformationen
Name: ontologies
Webadresse: http://foofoo/ontologies/Forms/AllItems.aspx
Beschreibung:
Allgemeine Einstellungen
Titel, Beschreibung und Navigation
Versionierungseinstellungen
Erweiterte Einstellungen
Gültigkeitsprüfungseinstellungen
Einstellungen für Standardspaltenwerte
Einstellungen für Benutzergruppenadressierung
Navigationseinstellungen für Metadaten
Ansichtseinstellungen nach Speicherort
Berechtigungen und Verwaltung
Dokumentbibliothek löschen
Dokumentbibliothek als Vorlage speichern
Berechtigungen für Dokumentbibliothek
Dateien verwalten, die keine eingecheckte Version besitzen
Workfloweinstellungen
Einstellungen für die Unternehmensmetadaten und -stichwörter
Kommunikation
RSS-Einstellungen
Inhaltstypen
Diese Dokumentbibliothek ist so konfiguriert, dass mehrere Inhaltstypen zulässig sind. Mithilfe von Inhaltstypen können Sie zusätzlich zu den Richtlinien, Workflows oder anderen Verhaltensweisen eines Elements weitere anzuzeigende Informationen angeben. Die folgenden Inhaltstypen sind zurzeit in dieser Bibliothek verfügbar:
Inhaltstyp
Auf neuer Schaltfläche sichtbar
Standardinhaltstyp
OntologyMetadata
Aus vorhandenen Websiteinhaltstypen hinzufügen
Reihenfolge der neuen Schaltflächen und Standardinhaltstyp ändern
Spalten
In einer Spalte werden Informationen zu den einzelnen Dokumenten in der Dokumentbibliothek gespeichert. Da diese Dokumentbibliothek mehrere Inhaltstypen zulässt, werden einige Spalteneinstellungen (z. B. ob Informationen für eine Spalte erforderlich oder optional sind) jetzt durch den Inhaltstyp des Dokuments angegeben. Die folgenden Spalten sind zurzeit in dieser Dokumentbibliothek verfügbar:
Spalte (Klicken Sie hier zum Bearbeiten)
Typ
Verwendet in

14. You can now return to the library page and add ontologies, via the "Add document" button.

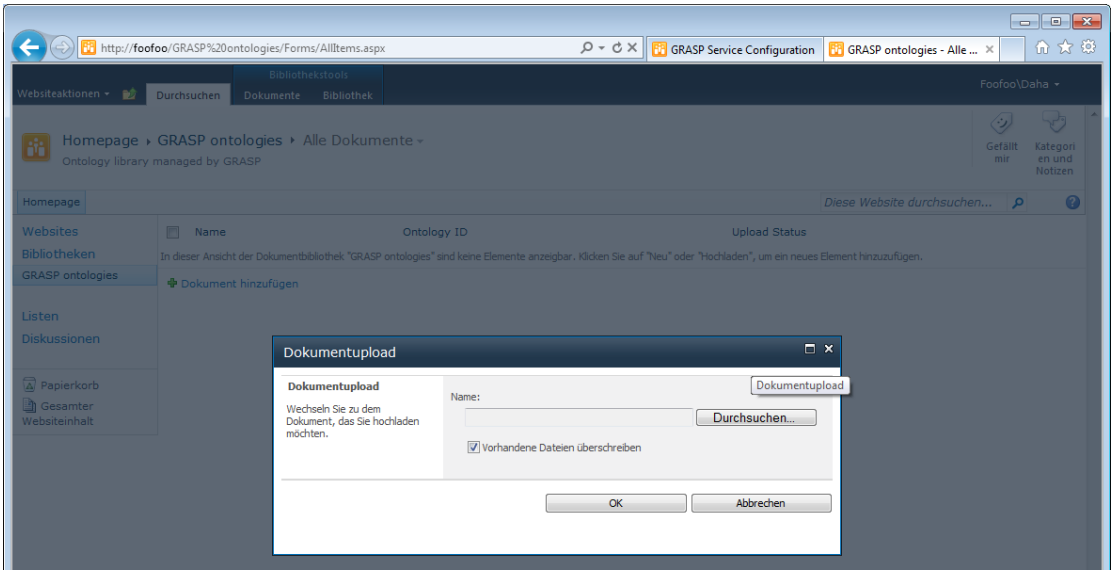
Managing ontologies in the ontologies library

You can manage ontologies in the ontologies library by:

1. Adding an ontology to the library,
2. Uploading an added ontology into the triplestore,
3. Creating a revision of an ontology and
4. Deleting an ontology.

Add an ontology

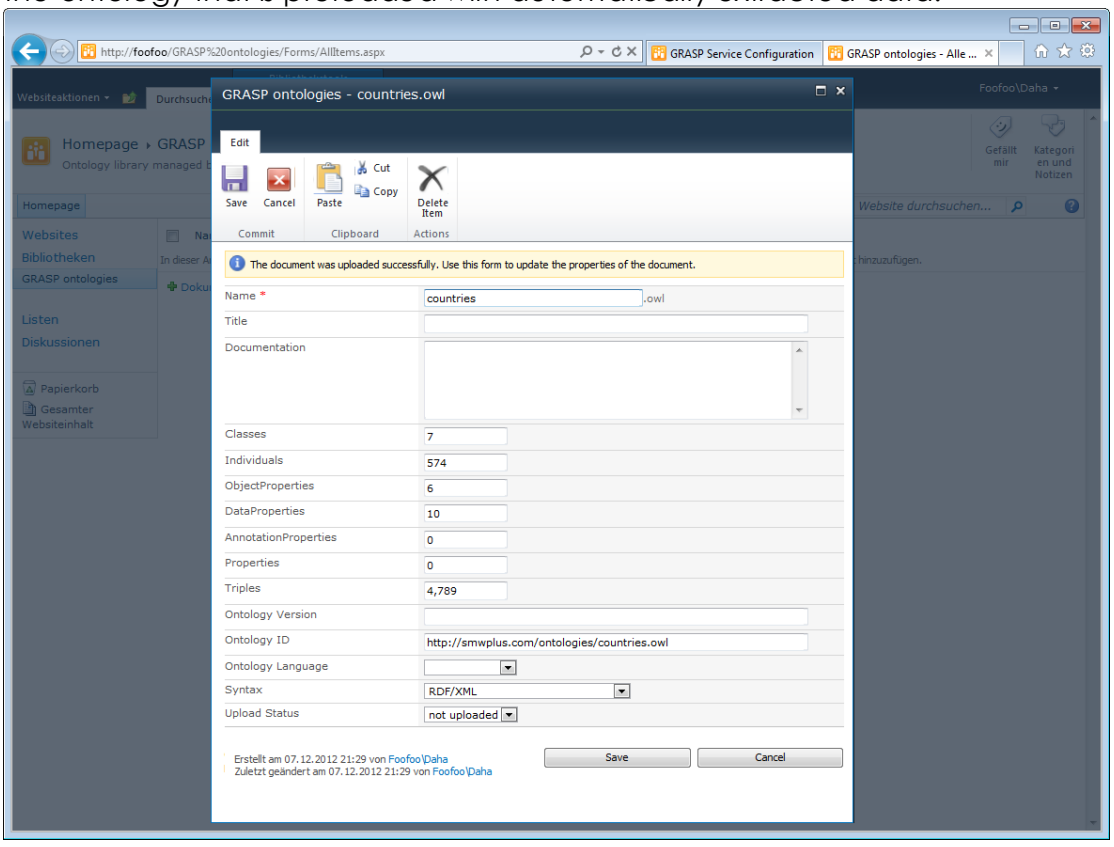
1. Navigate to the ontology library "GRASP ontologies".
2. Click on "add new document":



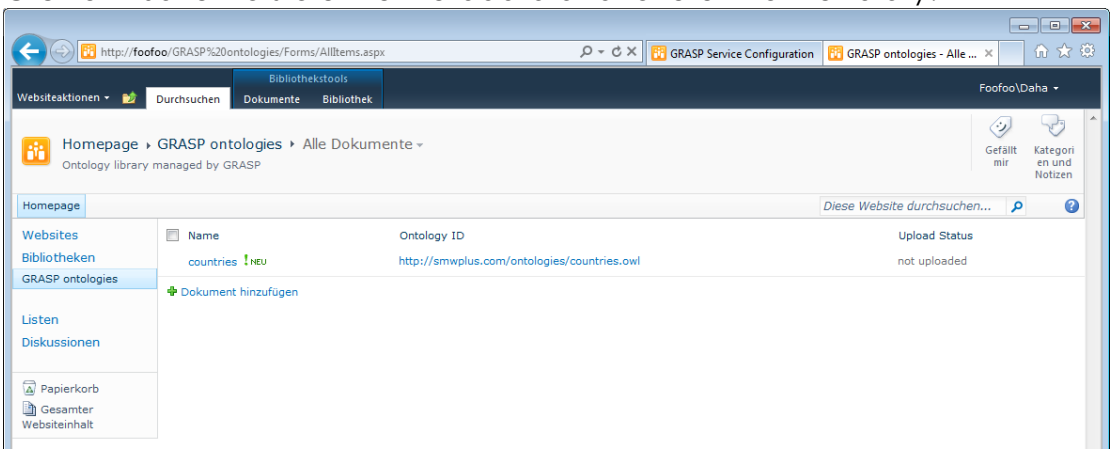
3. Click on „browse" and select the ontology that is stored on your local machine.

> **Note:**
> The following ontology formats are supported: NTriples, Turtle, Notation 3, RDF/XML, RDF/JSON, RDFa 1.0, TriX.

4. Click on "OK" to initiate the upload process.
5. Upon successful upload, a form opens that displays metadata about the ontology that is preloaded with automatically extracted data:

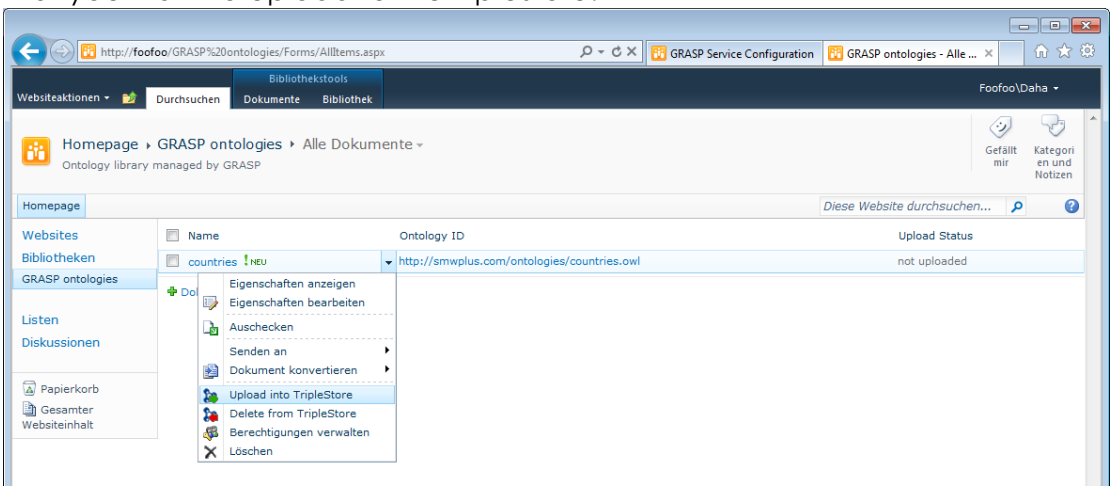


6. Click on "Save" to store the metadata and to return to the library:

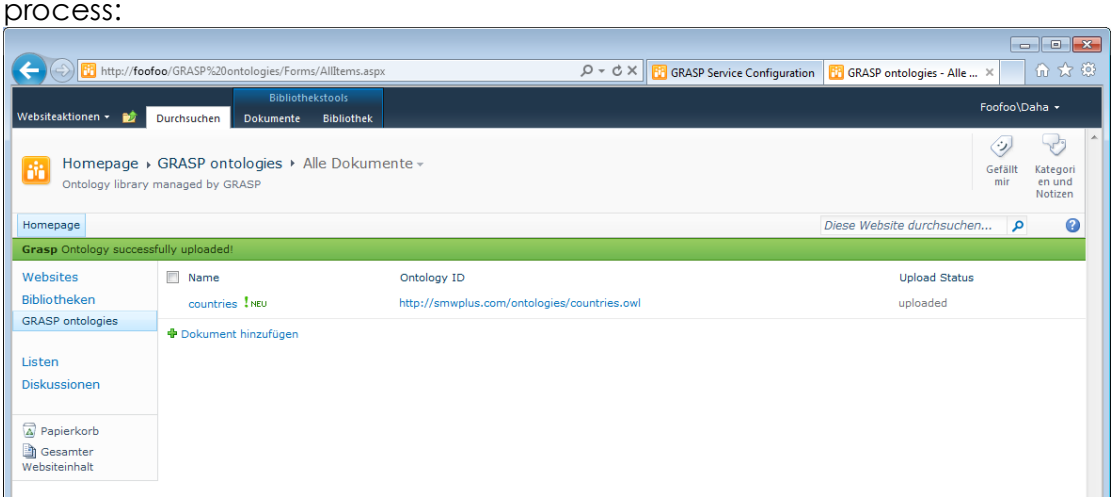


Upload on ontology into the triplestore

1. Go to the ontology library and open the context menu of the ontology that you want to upload to the triplestore:



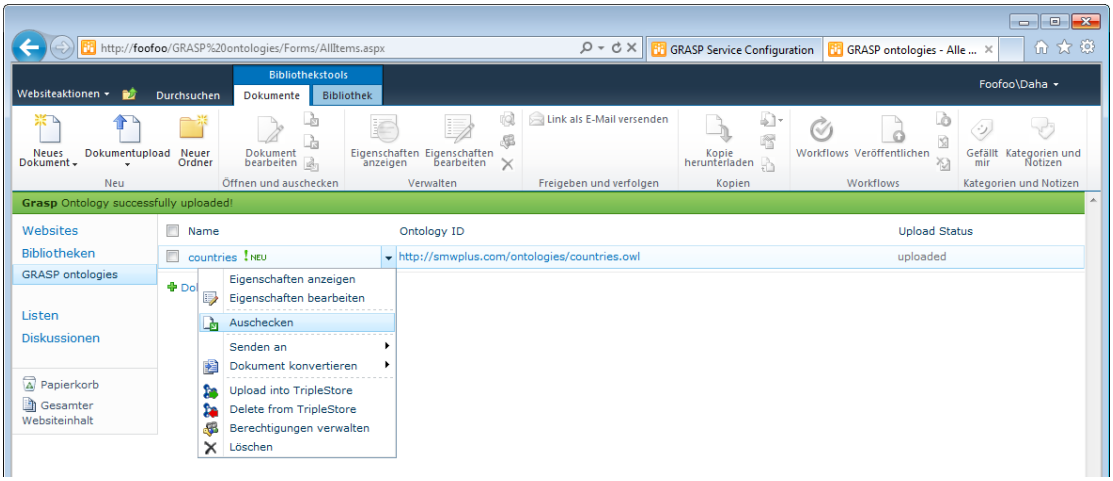
2. Click on the menu item „Upload into triplestore" to initiate the upload process:



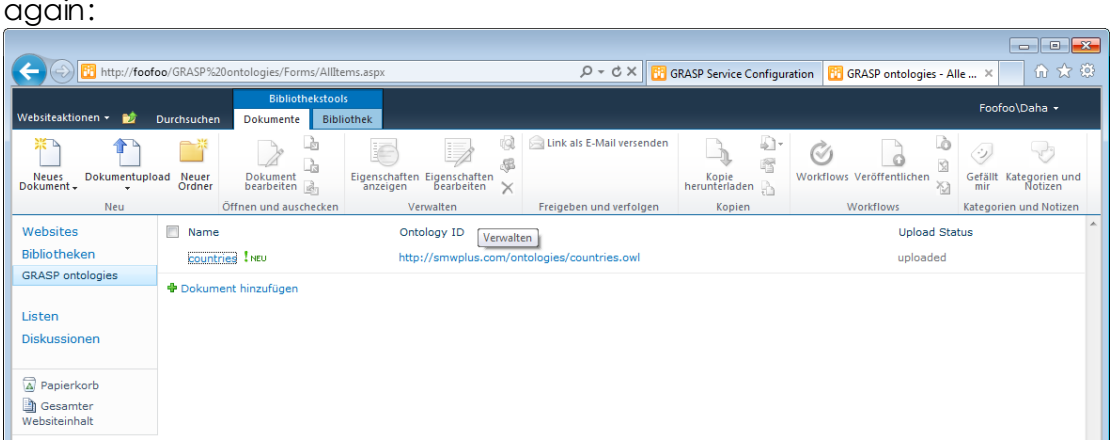
Important Note:
The upload process was successful if the status bar reads: "Grasp Ontology successfully uploaded! " and the "Upload Status" field changes to "uploaded".
If this is not the case then you must open the GRASP Service Configuration page to Test the connection with the triplestore.

Create a revision of an ontology

1. Go to the ontology library and select the ontology that you want to revise locally.
2. In its context menu select "Check out":



3. The ontology is now read-only for all other users until you check it in again:



4. You can download a copy of the ontology to your local machine in order to create a new revision by clicking on the link.
5. You can open the downloaded ontology in an ontology editor and modify it.
6. Save the revision of the ontology on your local machine.
7. Upload the new version into the ontologies library, modify the metadata fields as necessary and click on "check in".

Important Note:
The new revision of the ontology is not uploaded to the triplestore automatically. Instead you must initiate the upload manually.

Note:
If you want to manage versions of ontologies you must open the library settings and switch on version control.

Delete an ontology

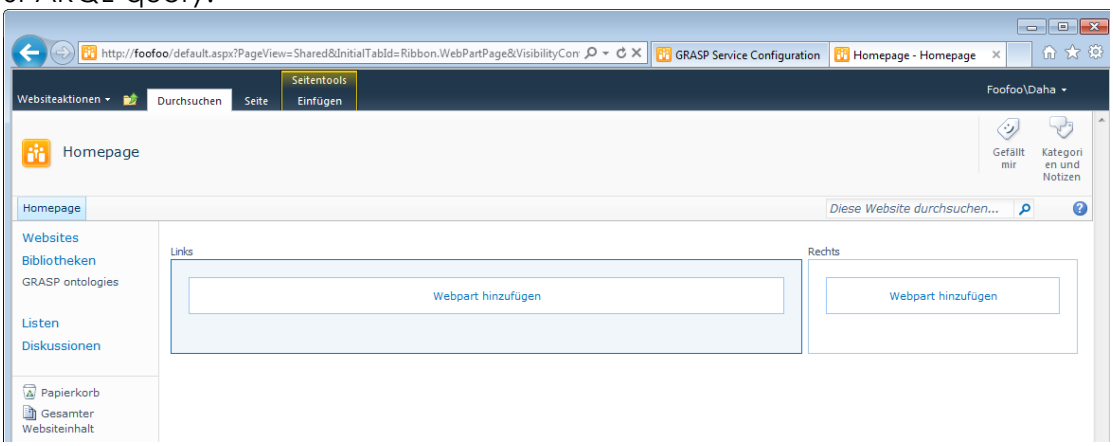
1. Delete the ontology from the triplestore.
2. Delete the ontology from the library.

Important Note:
Always delete the ontology from the triplestore first before deleting it from the library.

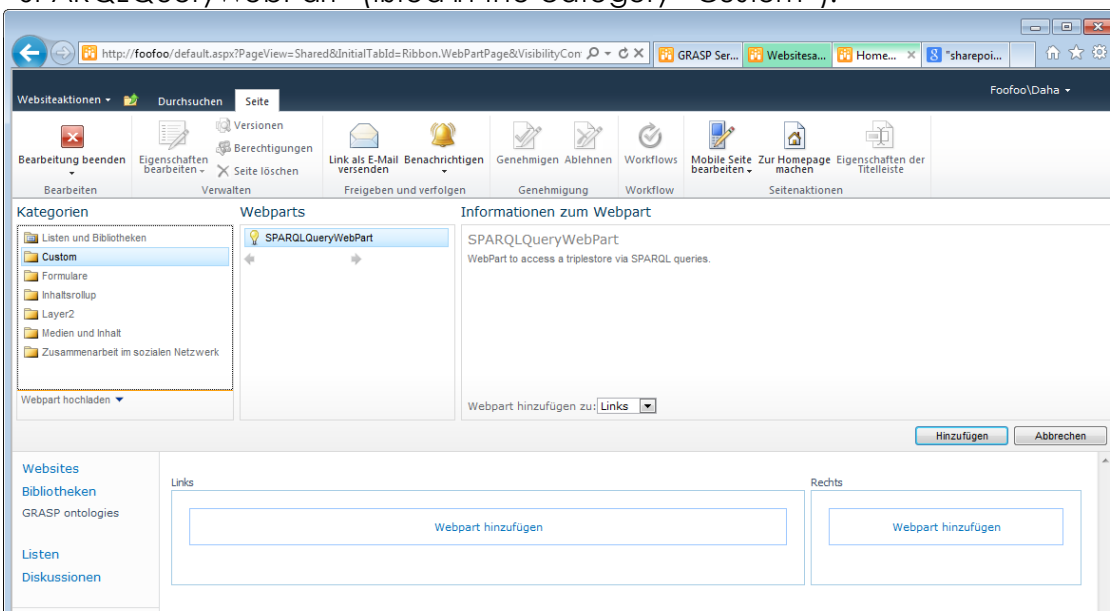
Query formulation in the SPARQL-webpart

Ontologies that are uploaded in the ontologies library and into the triplestore can be used for query formulation. Execute the following sequence of steps to embed the results of a SPARQL-query into an arbitrary page:

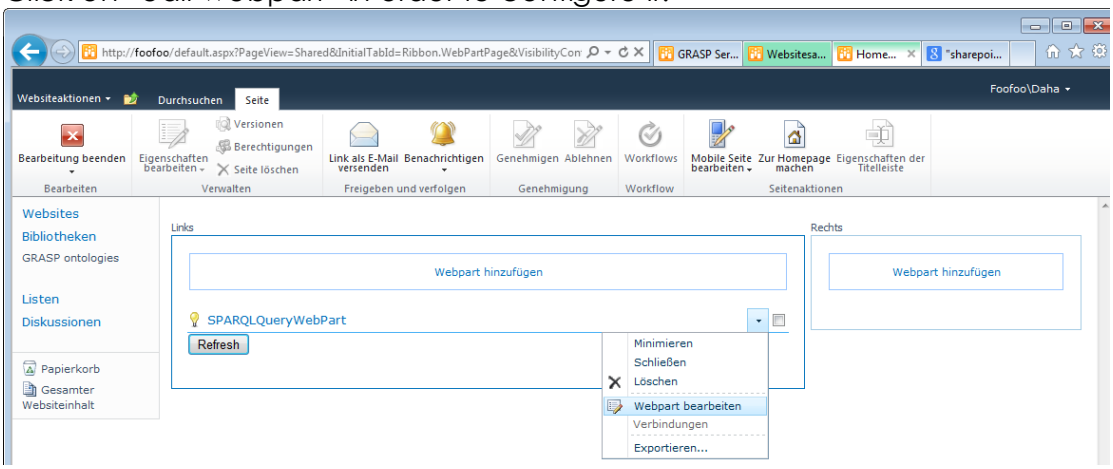
1. Open the article in edit mode that is going to display the results of the SPARQL-query:



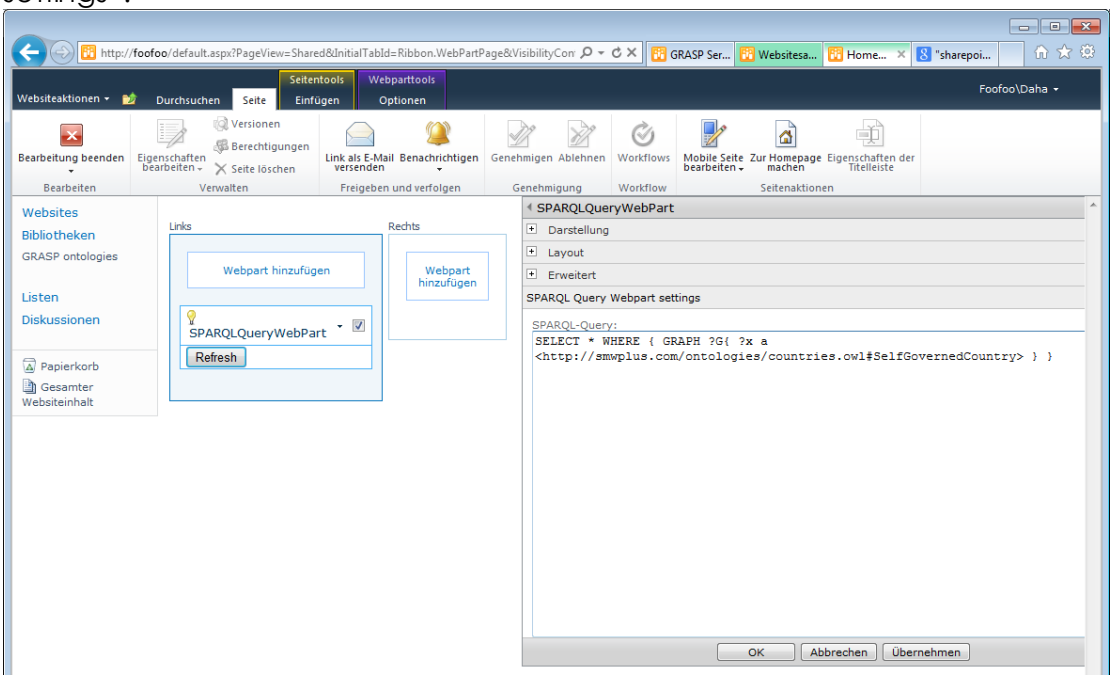
2. Click on „Add Webpart“ and select in the list of webparts “SPARQLQueryWebPart” (listed in the category “Custom”):



3. Click on “add” to add it to your page.
4. Click on “edit webpart” in order to configure it:



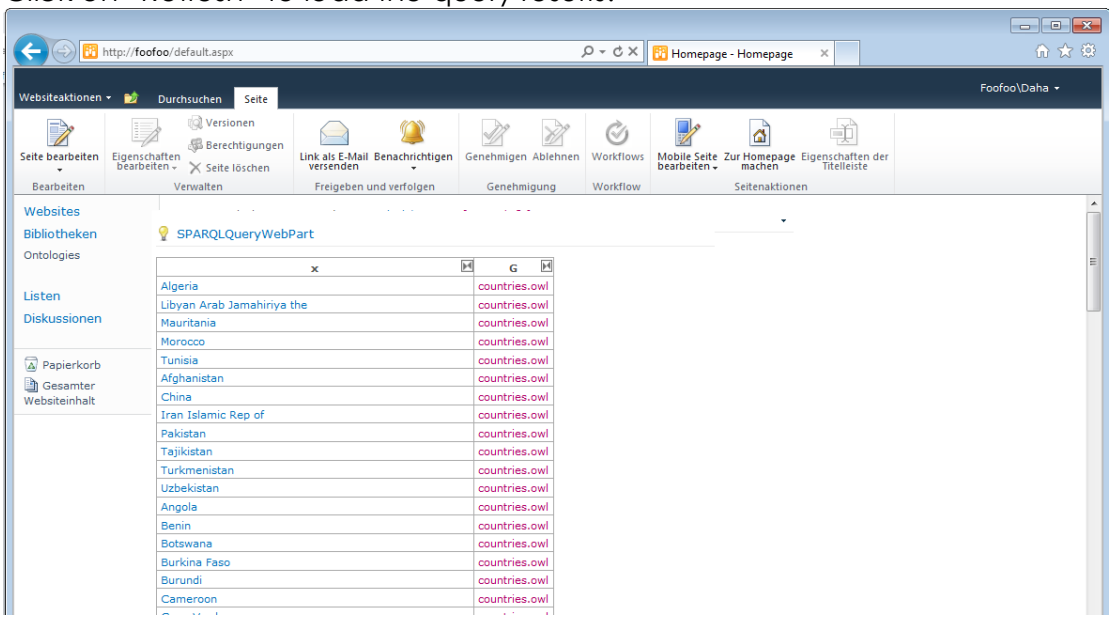
5. Enter the SPARQL-query into the section "SPARQL Query Webpart settings":



6. You can use this SPARQL query that works for the countries.owl ontology:

```
SELECT * WHERE { GRAPH ?G{ ?x a
<http://smwplus.com/ontologies/countries.owl#SelfGovernedCountry> } }
```

7. Save the web part and save the page.
8. Click on "Refresh" to load the query results:



Technical Support

Download new releases of GRASP

You find new releases of GRASP in the DIQA-download area:

http://downloads.diqa-pm.com/grasp-releases/

The known issues and bugfixes are listed in the contained "Readme" file.

Support inquiries

If you have issues with the software then please contact this email address: info@diqa-pm.de.

Buying a license

The evaluation version of GRASP is fully functional for 30 days. If you want to continue to use GRASP after this period has elapsed you must buy a valid license key from DIQA at: info@diqa-pm.de